

## CLAIMS

1. In a wireless communications network, a method for a mobile station to control the receipt of messages, the method comprising:  
creating a group of message responses;  
5 identifying a calling party;  
selecting a message response from the group of message responses, in reaction to the identity of the calling party; and  
supplying the selected message response.

10 2. The method of claim 1 wherein creating a group of message responses includes creating message responses selected from the group including audio alerting, vibration alerting, not alerting and responding with a busy signal, not alerting and recording the message, and forwarding the call to another telephone.

15 3. The method of claim 2 further comprising:  
creating a plurality of message response groups; and  
selecting a message response group from the plurality of message response groups.

20 4. The method of claim 3 wherein selecting a message response group from the plurality of message response groups includes selecting a message response group in reaction to factors including the time of day, communication activity level, and manual selection.

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5. The method of claim 4 wherein creating a group of message responses includes creating a hierarchy of message responses; and

the method further comprising:

creating a hierarchy of priority groups;

inserting calling party identities into the priority groups;

creating a matrix of the priority group hierarchy cross-referenced to message response hierarchy; and

wherein selecting a message response from the group of message responses, in reaction to the identity of the calling party, includes:

locating the calling party in a priority group; and

selecting a message response in reaction to locating the priority group.

6. The method of claim 5 further comprising:

receiving a calling party security code;

in response to receiving the security code, providing an override message response.

7. The method of claim 5 wherein the mobile station has a display mechanism, and further comprising:

showing the identity of the calling party, regardless of the selected message response.

8. The method of claim 5 wherein creating a hierarchy of priority groups includes adding special identities to the hierarchy of priority groups;

5 wherein creating a matrix of the priority group hierarchy cross-referenced to message response hierarchy includes cross-referencing the special identities to message responses; and

wherein selecting a message response from the group of message responses, in reaction to the identity of the calling party, includes:

10 prior to locating a calling party identity in a priority group, locating the calling party identity in the special identities; and

selecting a message response in reaction to locating the calling party in the special identities.

15 9. The method of claim 8 wherein creating a plurality of message response groups includes creating a plurality of message response hierarchies; and

the method further comprising:

20 creating matrices of the priority group hierarchy cross-referenced to each of the plurality of message response hierarchies; and

wherein selecting a message response group from the plurality of message response groups includes identifying the priority group-message response matrix to be used for cross-referencing the located priority group.

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10. The method of claim 9 further comprising:  
editing the matrices to modify a relationship between a  
priority group and a message response.

5 11. The method of claim 10 further comprising:  
editing the matrices to modify the relationship between a  
calling party identity and a priority group.

10 12. The method of claim 9 in which the mobile station  
includes a local memory, a microprocessor, and a software application of  
microprocessor instructions; and

the method further comprising:

loading the selected priority group-message response matrix  
into the local memory; and

15 wherein locating the calling party in a priority group  
includes locating the calling party in a priority group stored in the local  
memory; and

wherein selecting a message response in reaction to locating  
the priority group includes selecting a message response stored in the  
20 local memory.

13. The method of claim 12 further comprising:  
loading the priority group-message response matrices into  
local memory; and

25 wherein selecting a message response group from the  
plurality of message response groups includes using the software

application to select a priority group-message response matrix from memory for use in cross-referencing the located priority group.

14. The method of claim 12 wherein a remote memory is included, and further comprising:

loading the priority group-message response matrices into the remote memory; and

wherein selecting a message response group from the plurality of message response groups includes loading a priority group-message response matrix, into local memory from the remote memory, for use in cross-referencing the located priority group.

15. The method of claim 14 wherein selecting a message response group from the plurality of message response groups includes the mobile station periodically requesting that the current priority group-message response matrix be loaded into local memory from the remote memory.

16. The method of claim 14 wherein loading the priority group-message response matrix into local memory includes transmitting the message by wireless communication messages selected from the group including short message service (SMS) and general message service.

17. The method of claim 14 further comprising:  
preceding the loading of the priority group-message response  
matrix into local memory, manually sending a request that the priority  
group-message response matrix be transmitted.

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18. The method of claim 14 wherein the remote memory  
has an Internet address, and wherein selecting a message response group  
from the plurality of message response groups includes accessing the  
Internet address to load the priority group-message response matrix into  
10 local memory.

19. The method of claim 18 in which the mobile station  
includes a software browser application, and wherein selecting a message  
response group from the plurality of message response groups includes  
15 using the mobile station browser to access the Internet address through a  
wireless communications message.

20. The method of claim 18 wherein editing the matrices  
to modify the relationship between a priority group and a message  
20 response group includes accessing the remote memory through the  
Internet address; and

wherein editing the matrices to modify the relationship  
between a calling party identity and a priority group includes accessing  
the remote memory through the Internet address.

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21. The method of claim 9 in which a remote site memory, software application of machine executable instructions, and microprocessor are included; and

the method further comprising:

5 loading the priority group-message response matrices into remote memory; and

wherein selecting a message response group from the plurality of message response groups includes using the remote site software application to select a priority group-message response matrix  
10 from remote memory for use in cross-referencing the located priority group; and

wherein supplying the message response includes supplying the message response to the mobile station from the remote site.

15 22. The method of claim 1 in which the wireless communication system provides Caller ID services; and

wherein identifying the calling party includes using the Caller ID service to identify the calling party.

20 23. The method of claim 1 wherein identifying a calling party includes determining a calling party identity from factors including the complete phone number, area code, unknown number, and blocked number.

25 24. In a wireless communications network, a system to control the receipt of messages, the system comprising:

5 a mobile station having a wireless communications port to accept calls, the mobile station including a microprocessor, a software application of machine executable instructions, and a memory with a group of message responses, the mobile station identifying a calling party and selecting a message response from the group of message responses, in reaction to the identity of the calling party.

25. The system of claim 24 wherein the mobile station further includes indicators selected from the group including audible  
10 indicators, vibrator indicators, and a visual display indicators; and wherein message responses include responses selected from the group including:

15 using an indicator to alert, not using an indicator to alert, responding with a busy signal, not alerting and recording the message, and forwarding the call to another telephone.

26. The system of claim 24 wherein the stored message response group is a message response group selected from a plurality of stored message response groups.

20 27. The system of claim 26 wherein the mobile station further includes a switch; and

25 wherein the message response group stored in memory is selected in reaction to factors including the time of day, communication activity level, and manual selection using the switch.



28. The system of claim 27 wherein the memory includes calling party identities being stored in priority groups;

wherein the software application creates a matrix of the priority group hierarchy cross-referenced to the message response

5 hierarchy, the software application locating the calling party in a priority group, in response to the calling party being identified, and selecting a message response in reaction to locating the priority group.

29. The system of claim 28 wherein the mobile station  
10 memory includes an override priority group;

wherein the mobile station receives a calling party security code to trigger the override priority group; and

wherein the software application provides the override message response from memory in response to receiving the security code.

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30. The system of claim 28 wherein the mobile station further includes a display; and

wherein the software application shows the identity of the calling party on the display, regardless of the message response selected

20 in reaction to locating the priority group.

31. The system of claim 28 wherein special identities to the hierarchy of priority groups are stored in memory and cross-referenced to message responses; and

wherein the software application locates a calling party identity in the special identities and selects a message response in reaction to locating the special identity.

5           32.   The system of claim 31 wherein the memory includes a plurality of message response hierarchies, and matrices of the priority group hierarchy cross-referenced to each of the plurality of message response hierarchies; and

10           wherein the software application identifies the priority group-message response matrix to be used for cross-referencing the located priority group.

15           33.   The system of claim 32 further comprising:  
a remote memory including matrices of priority group-  
message responses, the remote memory having a port to transmit wireless  
communications; and

20           wherein the mobile station port accepts a priority group-  
message response matrix transmitted by the remote memory for storage  
in the mobile station memory.

34.   The system of claim 33 wherein the mobile station software application periodically requests that the current priority group-message response matrix in a wireless transmission through the communications port; and

wherein the remote memory transmits the current priority group-message response matrix to the mobile station in response to the request.

5           35.    The system of claim 34 wherein the mobile station request of the priority group-message response matrix is transmitted with a wireless message selected from the group including short message service (SMS) and general message service; and

              wherein the remote memory transmits the priority group-  
10   message response matrix by wireless communication messages selected from the group including SMS and general message service.

              36.    The system of claim 34 wherein the mobile station switch is used to manually request the transmission of the priority group-  
15   message response matrix from the remote memory.

              37.    The system of claim 34 wherein the remote memory is accessible through an Internet address; and

              wherein the mobile station includes a browser to request the  
20   current priority group-message response matrix, via a wireless communications to the remote memory Internet address.

              38.    The system of claim 37 wherein the mobile station browser is used to access the remote memory, to edit the matrices,  
25   modifying the relationships between a priority group and a message

response, and to modify the relationship between a calling party identity and a priority group.

39. The system of claim 24 in which the wireless communication network provides Caller ID services; and wherein the mobile station identifies the calling party using the Caller ID services provided by the wireless communications network.

40. The system of claim 24 wherein the mobile station software application identifies a calling party from factors including the complete phone number, local area exchange, area code, unknown number, and blocked number.

41. In a wireless communications network, a system to control the receipt of messages, the system comprising:

a mobile station having a wireless communications port to accept calls; and

a remote site having a wireless communication port, a microprocessor, a software application of machine executable instructions, and a memory including a group of message responses, the remote site selecting a message response from the group of message responses in reaction to the identity of the calling party, and the remote site communicating the selected response to the mobile station.

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